

Rural District Council  
OF  
BASFORD.

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ANNUAL REPORT  
FOR  
1895.

BY

JAMES SCOTT TEW, M.D., D.P.H.,  
RESIGNED SEPTEMBER, 1895,

AND

GEORGE BURY WRAY, M.R.C.S., D.P.H.,  
APPOINTED OCTOBER, 1895,

MEDICAL OFFICERS OF HEALTH.

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# Rural District Council of Basford.

CHAIRMAN - - R. G. HANSON, ESQ., J.P.

VICE-CHAIRMAN - WM. WALKER, ESQ.

<i>Parishes.</i>	<i>District Councillors.</i>	<i>Parishes.</i>	<i>District Councillors.</i>
Annesley & Felley	M. LYON	Greasley	{ W. BAILEY R. G. HANSON
Awsworth - -	A. R. TOWSON	Kirkby - -	W. H. GELSTHORPE
Barton - -	C. J. HODGSON	Lambley - -	T. MARRIOTT
Bestwood Park -	J. H. BRADWELL	Lynby - -	J. MACHIN
Bilborough - -	J. BURTON	Newstead - -	J. B. SMITH.
Bradmore - -	T. WALKER	Nuthall - -	W. H. SLATER
Bunny - -	T. B. SMEETON	Papplewick -	T. E. SWIFT
Burton Joyce -	W. J. CULLEN	Ruddington -	R. GUNN
Calverton - -	W. RENWICK	Selston - -	E. BRIGGS
Clifton - -	H. H. W. FFOULKES	Shipley - -	P. WALKER
Codnor - -	W. FARNSWORTH	Stoke Bardolph -	J. AVIS
Codnor Park -	J. STEEPLES	Strelley - -	W. OLDERSHAW
Colwick - -	G. W. HOOTON	Thrumpton - -	
Cossall - -	E. PAXTON	Trowell - -	G. PLATTS
Eastwood - -	H. SAXTON	Wilford (South) -	W. BEECROFT
Gamston - -	W. WALKER	Wollaton - -	C. W. WRIGHT
Gedling - -	H. TAYLOR	Woodborough -	W. E. BUCKLAND
Gotham - -	S. BOWLEY		

## ❧ Preface. ❧

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*To the Chairman and Members of the Rural District Council  
of Basford.*

GENTLEMEN,

During the past year the post of Medical Officer of Health to your Council has changed hands, and it becomes the duty of your past and present Officers to either jointly or severally make a Report for that portion of the year during which each has held office. We have adopted the former course so that the Report may be uniform with those which have preceded it in recent years.

As your late officer has been very fully occupied since his appointment to West Kent, the chief responsibility for the figures in the following pages rests with your present officer, who wishes gratefully to acknowledge the careful and methodical manner in which the materials (from which the bulk of the Report is obtained) were kept and handed on to him, and his indebtedness for much useful information frequently and willingly rendered through the post.

The Year has been marked by the carrying out of several large schemes for improving the health of your District, the Sewerage works for Eastwood and Greasley, the Water Supply of Selston, and the erection of the Isolation Hospital were all well on their way towards completion at the end of the year, and will, it is to be hoped, signalize the present year by being in full working order before its close.

There are still many very urgent matters requiring attention in the District; the Sewerage and Sewage Disposal Scheme for Selston; the solution of the Dover Beck Valley Water Question; and the Supply of a Pure and Wholesome Water for Burton Joyce and Gotham are among the more important requiring early attention.

There is very little fault to find with the health of the District during the year, though, coming after a record year, the Vital Statistics do not compare favourably with the figures of 1894, but if compared with those for 1893 and the years preceding, a general improvement is shown.

Several epidemics of Zymotic Disease have been present in the District during the year ; the more fatal ones being Measles and Whooping Cough in the Greasley Sub-district, and, to a less extent, Enteric Fever in Kirkby. Scarlet Fever has been widely spread over the District, but has been of a remarkably mild type. The Notification of Infectious Diseases continues to be well carried out, and the public are fast losing their antipathy to the services of your Disinfectors. It is to be hoped that this will be the last yearly opportunity for drawing attention to the urgent need for more adequate means of disinfecting articles of clothing and bedding, and that when you have the Isolation Hospital and its Disinfecting Apparatus in full working order, a marked and real check may be placed on the spread of Infectious Diseases in your District.

Your late Medical Officer desires to take this opportunity of expressing his grateful thanks to the Members of your Council for the many personal and general acts of kindness he has received at your hands, during the six years he had the honour of being your Officer.

J. S. TEW.

G. B. WRAY.

February 25th, 1896.



TO THE CHAIRMAN AND MEMBERS OF THE RURAL DISTRICT  
COUNCIL OF BASFORD.

Report.

GENTLEMEN,

The following is our Report for 1895.

I.—THE DISTRICT.

The Rural District Council of Basford has the sanitary administration of thirty-six separate parishes—33 in the County of Notts. and 3 in the County of Derby.

The area is the same as that of the Basford Union Rural Sanitary District, and is 73104 acres in extent, with a population of 54934.

The following Table shows the parishes, areas, inhabited houses, and the population of the Sanitary Sub-districts, estimated to the middle of 1895:—

Sanitary Sub-District.		Parishes included.	Acres.	Inhabited Houses. Census 1891.	Estimated Population 1895.
No.	Name.				
1—Greasley	...	{ Kirkby-in-Ashfield, Selston, Annesley, Felley, Greasley, Eastwood, Codnor Park, Codnor. }	24230	6713	36865
2—Ilkeston	...	Shipley, Cossall, Trowell...	4719	392	2223
3—Basford	...	Wollaton ..	2340	125	630
4—Bulwell		{ Bilborough, Strelley, Awsworth, Nuthall, Bestwood Park. }	7249	581	3204
5—Arnold		{ Lynby, Newstead, Papplewick, Calverton, Woodboro', Lambley. }	14168	955	4342
6—Carlton		{ Burton Joyce, Gedling, Stoke Bardolph, Colwick, Gamston. }	6078	415	2489
7—Wilford		{ Ruddington, Bradmore, Bumpy, Gotham, Thrumpton, Barton, Clifton-cum-Glaption, Wilford. }	14620	1203	5181
Total...		...	73404	10384	54934

An inspection of the accompanying Map will give an idea of the extent of the District, and the relative positions of the different parishes; we hope that this addition to the Report will meet with the approval of the Council, and may be of use to its members in following out the monthly reports of their officers.

Mr. W. Darley (No. 1 Division), and Mr. S. Maylan (No. 2 Division) continue to carry on the Sanitary administration of your District in a most satisfactory manner, and to them as to your other officers our cordial thanks are due for their ready and valuable assistance, freely rendered on all occasions, in carrying out the sanitary work of the District.

Mr. H. H. Russell, who succeeded his father in April last as School Attendance Officer, and Inspector of Canal Boats, and also of Dairies and Cowsheds, resigned his post in July last. Mr. Wm. Renwick, of Calverton, was on August 27th appointed from amongst 68 Candidates to act as School Attendance Officer for the District; and the Inspection of Canal Boats and also of Dairies and Cowsheds was delegated to Messrs. Darley and Maylan, each in his respective Division.

The Sanitary Officers attend at the Public Offices, Nottingham Road, Basford, every Friday morning, from 10 to 12.30, to receive complaints, confer on matters which have arisen in connection with the work, and arrange visits of inspection, &c.

The following are the divisions of the parishes for Sanitary supervision:—

#### No. 1 DIVISION (Mr. Darley).

	Area.	Population Census, 1891.		Area.	Population Census, 1891.
Awsworth ...	364	1247	Nuthall ...	1536	618
Codnor ...	1879	3848	Selston ...	2330	5267
Codnor Park	1342	1077	Shipley ...	2134	689
Cossall ...	720	829	Trowell ...	1570	414
Eastwood ...	940	4363		—	—
Greasley ...	8010	11143		20825	29495



## No. 2 DIVISION (Mr. Maylan).

		Population				Population	
		Area.	Census, 1891.			Area.	Census, 1891.
Annesley	...	3360	... 1374	Kirkby	...	5590	... 6533
Barton	...	1620	... 246	Lambley	...	2170	... 729
Bestwood Park	...	3635	... 736	Lynby	...	1190	... 310
Bilborough	...	1090	... 210	Newstead	}	5250	... 1036
Bradmore	...	1560	... 244	Papplewick			... 384
Bunny	...	2000	... 239	Ruddington	...	2190	... 2370
Burton Joyce	...	970	... 877	Stoke Bardolph	...	1060	... 118
Calverton	...	3320	... 1999	Strelley	...	1050	... 204
Clifton	..	1980	... 391	Thrumpton	...	1080	... 141
Colwick	...	1010	... 480	Wilford (South)	...	1367	... 519
Felley	...	333	... 44	Wollaton	...	2340	... 654
Gamston	...	530	... 94	Woodborough	...	1940	... 768
Gedling	...	4490	... 526		---	---	---
Gotham	...	2740	... 1134			53865	21630

## II.—VITAL STATISTICS.

Tables of statistics are placed at the end, viz:—A. and B. required by the Local Government Board, in which the figures are separated by request for the information of the County Councils of Nottinghamshire and Derbyshire; the tables, 1 and 5, recommended by the Society of Medical Officers of Health, and two tables giving the Meteorological conditions at different points in and around the District.

Statistics not belonging to the District and quoted for comparison, are those for England and Wales (less the 100 Towns) and are derived from the "Quarterly Returns" of the Registrar-General, which, as they are averaged, are liable to slight discrepancies when compared with those given in his "Annual Report." The difference, however, will not cause serious error, or greatly affect the conclusions to be derived therefrom.

**The Population** is estimated on the supposition that the rate of increase in the different Sub-districts shown by the last census to have obtained during the preceding intercensal period, will continue during the present one; this means of estimation is liable to considerable error in a District so widely differing in character as yours, but

is probably the best to adopt, as nothing short of a Local Census would arrive at an accurate estimate.

In the Coal Mining Districts where new houses are rapidly springing up, the increase is most marked, while in the Agricultural districts the population is either at a stand-still or shows a decrease, and very few building operations are in progress.

**Marriages.**—The number of persons married was 624—a decrease of 16 on the figures for 1894, but slightly above the average for the past 10 years, (620·8). This corresponds to a Marriage rate of 11·3 per 1000 of population.

**Births.**—2013 births were registered during the year—the largest number since the year 1878. Of these 1040 were males and 976 females. Among the males 27, and among the females 33, were illegitimate.

Their registration was distributed over the four quarters of the year as follows:—

OWS :—			MALES.				FEMALES.	
			Legitimate.	Illegitimate.	Legitimate.	Illegitimate.		
1st Quarter	...	274	...	11	...	267	...	5
2nd	„	254	...	5	...	226	...	6
3rd	„	270	...	6	...	227	...	13
4th	„	215	...	5	...	220	...	9
Total			1013	27	940	...	33	

The births during the 5 years immediately preceding were as follows:—

Year.	Number of births.			
1894	...	...	...	1808
1893	..	...	...	2009
1892	...	...	...	1914
1891	...	...	...	1988
1890	...	...	...	1846

The Natural increase, *i.e.*, the excess of births over deaths, was 1100; and the birth rate equal to 36·64 per 1000. This rate is ·6 above the average in the District for the past 10 years, 3·08 above the rate in 1894; and 7·17 above the rate for England and Wales, (less the 100 towns) viz., 29·47, in 1895.

**Deaths.**—The corrected number of deaths is 913, *i.e.*, 209 more than in 1894, and 83 above the average for the last 10 years. This marked increase is principally due to the Zymotic group (including Influenza) but also to a large number of deaths amongst infants and old people, probably caused by the very severe weather experienced in the earlier months of the year.

The numbers occurring in each quarter of the year and in the 5 preceding years are as follows:—

	1890	1891	1892	1893	1894	1895
1st Quarter ...	248	230	280	208	225	293
2nd „ ...	220	251	218	199	177	228
3rd „ ..	231	168	199	228	118	186
4th „ ...	236	220	257	201	184	206
	—	—	—	—	—	—
	935	869	954	836	704	913

This number corresponds to a death-rate of 16·6 per 1000, *i.e.*, 3·56 above that of 1894, and ·58 above the average of the last 10 years; it is however, ·85 below the death rate for England and Wales (less the 100 towns) *viz.*, 17·47.

The following rates for 1895 are for comparison:—

Death-rate for England and Wales	...	...	...	18·7
„ „ 33 Great Towns	...	...	...	20·6
„ „ 67 other Town Districts	...	...	...	18·8
„ „ England and Wales <i>less</i> the 100 Towns	...	...	...	17·4
„ „ London	...	...	...	19·6
„ „ Nottingham	...	...	...	18·9

The Infant Mortality is considerably higher than in 1894, as also the mortality of those under 5 years; the numbers during the past 5 years are given below:—

	Deaths under 1 year.	Deaths under 5 years.
1891 ...	285	366
1892 ...	326	485
1893 ...	300	396
1894 ...	251	338
1895 ...	295	418

The **Infant Death-rate** was 146·54 per 1000 registered births, as compared with 138·82 in 1894; 323·11 per 1000 total deaths; and 5·3 per 1000 living.

**Phthisis** (Consumption),—This disease caused 36 deaths, *i.e.*, 26 less than in 1894: the death-rate was ·65 per 1000 living.

**Cancer** caused 35 deaths in 1895; an increase of 11 on the figures for 1894, and 7·2 above the average for the last 10 years: the death-rate was ·64 per 1000 living.

**Deaths in Public Institutions** numbered 34, viz.:—Basford Workhouse, 17; County Asylum, 5; General Hospital, 4; and Ilkeston Hospital, 8. I am indebted to Mr. W. Turnbull, Dr. Aplin, Mr. E. M. Keeley, and Miss M. A. Barker respectively, for furnishing these particulars.

**Inquests.**—Coroners' Inquests were held in 38 cases (as compared with 34 in 1894)—33 males and 5 females—*i.e.*, in 4·1 per cent. of the total deaths.

The age periods were:—

Under 1 yr.	1-5 yrs.	5-15 yrs.	15-25 yrs.	25-65 yrs.	65 yrs. upwards.
1	8	6	7	11	5

The following were returned as death causes:—

Killed on Colliery or other Railways	...	11
Burned	..	7
Drowned	...	8
Heart Disease	...	2
Fractured Skull	...	2
Apoplexy	...	2
Blood Poisoning	...	1
Cut throat (suicide)	...	
Poisoned	..	
Convulsions	...	
Excessive Drinking...	...	
Crushed against a wall	...	...

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**Uncertified Deaths.**—Thirty deaths have been registered as “not certified” during the year, as compared with 15 in 1894. The following is a classification:—

## Uncertified Deaths.

Causes.		Age-periods.	
Debility from Birth	7		
Premature ..	6	... 0 — 1 yrs.	17
Convulsions ...	4	... 1 — 5 „	3
Tubercular Disease	2	... 5 — 15 „	1
Heart Disease ...	3	... 25 — 65 „	3
Fits ... ..	2	... 65 upwards	6
Asthma and Bronchitis	2		—
Epilepsy ... ..	1		30
Influenza ... ..	1		—
Measles ... ..	1		
Old Age — ...	1		
	—		
	30		

Table showing the number and distribution of Inquests held, and the uncertified deaths recorded during 1895.

REGISTRATION SUB-DISTRICT.	INQUESTS held in the District during the year 1895.					DEATHS recorded as "uncertified" during the year 1895.				
	1st Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	Total.	1st Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	Total.
Greasley ...	10	3	...	8	21	10	6	4	2	22
Ilkeston ...	3	2	1	2	8	...	...	1	...	1
Basford ...	...	1	1	...	2	...	...	...	...	0
Bulwell ...	1	2	...	...	3	1	...	...	...	1
Arnold ...	...	1	...	...	1	4	...	...	...	4
Carlton ...	...	...	...	...	0	2	...	...	...	2
Wilford ...	...	2	1	...	3	...	...	...	...	0
Totals ...	14	11	3	10	38	17	6	5	2	30
Rate per 100... total deaths.	4.8	4.9	1.6	4.9	4.2	5.9	2.7	2.7	.9	3.0
Percentage England & Wales.	6.0	6.0	5.7	6.3	6.0	2.7	2.3	2.0	2.3	2.3



**Zymotic Deaths.**—95 deaths are recorded as occurring from the seven principal Zymotic diseases, viz.:—(1) Small-pox, (2) Scarlet Fever, (3) Diphtheria, (4) Fevers (including Typhus, Enteric or Typhoid, and other continued fevers), (5) Measles, (6) Whooping Cough, and (7) Diarrhœa. This number is 51 above the figure for 1894, but is 2·6 below the average for the last 10 years.

The **Zymotic Death-rate**, derived from the above-mentioned diseases, was 1·72 per 1000, *i.e.*, ·9 above that of the previous year. The Zymotic death-rate for England and Wales (less the 100 towns,) was 1·61 per 1000.

Further particulars of Zymotic Mortality are given in the following table:—

DISEASES.	Total Deaths from Zymotic Diseases, during					Annual Average of 10 years, 1885-1894.	Proportion of Deaths to 1000 Deaths in 10 Years	Proportion of Deaths to 1000 Deaths in 1895.
	1891.	1892.	1893.	1894.	1895.			
Small-Pox ... ..	...	...	2	0	...	0·2	0·24	0·00
Measles ... ..	6	39	5	3	20	15·1	18·19	21·85
Scarlet Fever ... ..	19	17	7	7	6	13·	15·66	6·55
Diphtheria ... ..	3	5	8	7	6	4·4	5·3	6·55
Whooping Cough ...	13	35	21	11	15	18·	21·69	16·39
Typhus Fever... ..	...	...	...	...	...	...	...	...
Typhoid or Enteric Fever ... ..	13	15	17	6	14	14·7	17·7	15·3
Simple continued Fever ... ..	..	...	1	1	...	0·5	0·6	0·00
Diarrhœa ... ..	15	27	46	9	34	31·5	37·94	37·15
TOTALS ...	69	138	107	44	95	97·4	117·32	103·79

### A.—Notifiable Zymotic Diseases.

The diseases notified in this District are those enumerated in the Infectious Disease Notification Act (1889), viz., Small-pox, Cholera, Diphtheria, Membranous Croup, Erysipelas, the disease known as Scarla-



tina or Scarlet Fever, and the Fevers known by any of the following names:—Typhus, Typhoid, Enteric, Relapsing, Continued or Puerperal. The Act has been in force since January 1st, 1890.

The following Tables show the monthly occurrence of these diseases, and the deaths recorded:—

*Cases of Notifiable Diseases occurring in each month of 1895.*

Month.	Scarlet Fever.	Diph'teria & Memb. Croup.	Enteric Fever.	Erysipe- las.	Contin- ued Fever.	Puerpe- ral Fever.	Small- pox	Cholera	Totals.
January -	10	...	7	9	...	1	...	...	27
February -	9	3	5	5	...	3	...	...	25
March -	9	2	1	4	...	...	...	...	16
April -	4	2	...	5	...	...	...	...	11
May -	6	3	4	5	...	...	...	...	18
June -	9	1	10	4	...	1	...	...	25
July -	17	...	3	5	...	...	...	...	25
August -	19	9	17	5	...	1	...	...	51
September -	19	4	12	4	...	...	1	1	41
October -	20	...	23	1	...	...	...	...	44
November -	35	6	26	7	...	1	...	...	75
December -	38	6	14	5	...	...	...	...	63
Totals -	195	36	122	59	...	7	1	1	421

*Deaths from Notifiable cases in each month of 1895.*

Month.	Scarlet Fever.	Diph'teria & Memb. Croup.	Enteric Fever.	Erysipe- las.	Puerpe- ral Fever.	Cholera	Totals.
January -	...	...	...	...	...	...	0
February -	...	...	1	2	...	..	3
March -	...	1	...	...	...	...	1
April -	...	1	...	...	...	...	1
May -	2	...	...	...	...	...	2
June -	...	1	...	1	1	...	3
July -	...	...	...	...	...	...	0
August -	...	..	...	...	...	...	0
September -	...	3	1	...	...	1	5
October -	1	...	3	1	...	...	5
November -	2	1	7	...	1	...	11
December -	1	...	2	...	...	...	3
Totals -	6	7	14	4	2	1	34

The cost of notification during the year has amounted to £52 12s. 6d. ; or an average of about 19s. per 1000 of the population.

On receipt of a notification, a leaflet of instructions and addressed post card are sent by the Medical Officer of Health to the occupier of the house in which the disease has occurred. The house is visited and a report made by the Inspector for the Division, and any steps taken which may be deemed necessary to improve the sanitary conditions of the premises. On the post card being returned, the house is disinfected by an Officer of the Council. This answers fairly well, but, when the Isolation Hospital is open, we shall be able to combat infectious disease in a more complete and satisfactory manner, and, by early isolation of cases and thorough disinfection of clothes and bedding, in a proper steam apparatus, limit those Epidemics which, year after year, have been prevalent in your District.

The table below shows the cases notified, and the deaths in the 6 years, 1890—1895 :—

		Scarlet Fever.	Diphtheria & Mem. Croup	Enteric Fever.	Erysipelas.	Continued Fever.	Peurperal Fever.	Small-pox.	Cholera.	Totals.
Notified Cases in	1890	202	17	102	34	...	5	...	...	360
" "	1891	252	12	91	61	1	...	...	...	417
" "	1892	138	14	81	57	1	2	4	...	297
" "	1893	161	58	210	54	3	5	10	...	501
" "	1894	184	42	51	45	1	4	1	...	328
" "	1895	195	36	122	59	...	7	1	1	421
Deaths from Notifi- able Diseases in	1890	6	1	19	3	...	1	...	...	30
" "	1891	19	3	13	3	..	2	...	...	40
" "	1892	17	5	15	1	...	2	...	...	40
" "	1893	7	9	17	3	1	5	2	...	44
" "	1894	7	10	6	3	...	3	...	...	29
" "	1895	6	7	14	4	...	2	...	1	34

**Small-Pox.**—One case was notified, but on being visited in consultation with the Medical man in attendance it was found not to be Small-pox, and no extra ordinary precautions were deemed necessary.

**Scarlet Fever.**—195 cases of this disease were notified during the year (as compared with 184 in 1894) with six deaths, giving a case-mortality of 3·0 per cent, and a death-rate of ·10 per 1000.

The ages at death were:— 2 ... 3 ... 4 ... 7 ... 8 ... 9.

The deaths occurred at Jacksdale 2, Newstead 1, Trowell 1, Linby 1, Ruddington 1.

The death-rate was  $\cdot 12$  in England and Wales (less the 100 towns) in 1895.

The disease was widely spread over the district, and was present during each month of the year, though its incidence was most marked during the latter half. The localities which suffered most were Kirkby, Kimberley, Ruddington, Eastwood, Linby and Papplewick, Selston, (Jacksdale and Westwood) and Annesley.

**Diphtheria.**—36 cases of this disease were notified, with six deaths, giving a case-mortality of 16·6 per cent, and a death-rate of  $\cdot 10$  per 1000. The Registrar General in his last Annual Report draws attention to the fact that whereas the death-rate from all other Zymotic diseases shows a downward tendency, that from Diphtheria does not, but on the contrary is on the increase. The District most notably affected this year (as last) is Codnor, with 7 cases and 3 deaths, other districts are Kirkby with 8 cases and 1 death, New Cossall 2 cases and 1 death, Eastwood 4 cases and 1 death. Also 1 case of Membranous Croup (which died) was reported from Codnor. These facts emphasize the remarks made by your late Officer, in last year's Report, as to the absence of a proper system of drainage acting as an exciting cause of Diphtheria, and it is significant that those localities, where Diphtheria shows itself year after year, are not drained at all, or the drainage is defective.

**Enteric Fever.**—122 cases were notified, with 14 deaths (including 1 in Basford Workhouse). The case-mortality was 11·4 per cent. and the death-rate  $\cdot 25$  per 1000. Though scattered over nearly the whole District, this disease was Epidemic in two localities only, viz., Kirkby with 55 cases and 7 deaths, and Ruddington with 35 cases and 2 deaths.

In Kirkby the presence of large privy middens with their decomposing contents plays a chief part in the predisposition to this disease, and the filthy habits of some of the residents help to foster and propagate it.

In Ruddington the disease was introduced by Navvies working on the New Railway, and at first was restricted to Shelton's Yard in the Marlpit, where in the month of August, 7 cases were reported. One of these cases (a woman) removed to the Leys in September, before complete recovery, and three weeks after her advent the disease broke out in this locality, the first case being notified on October 4th, and afterwards 20 more cases in quick succession. The Sanitary arrangements in the Leys were of the very worst description, and drainage completely absent. The tub-closets (5 in number) used by the women and children, were 3 feet from the end of the nearest house, (which is generally empty in consequence) were without tubs, badly ventilated, and smelt most abominably, the floors of the closets being in a filthy condition. The fact that the disease in the Leys was confined to the women and children using these closets together with the infected case from Shelton's Yard, points strongly to the absence of tubs and consequent filthy state of the closets, as the means by which the Fever was spread.

**Erysipelas.**—59 cases of this disease were reported with 4 deaths. The deaths occurred at Eastwood (2) Kimberley and Kirkby.

**Puerperal Fever.**—Seven cases were reported, with 2 deaths. The deaths occurred at Kirkby and Selston. We have not been able to trace any connection between these cases and notified cases of Erysipelas or Scarlet Fever.

**Disinfection.**—362 return post cards, with cards or leaflets of instructions, were sent out to occupiers of houses where infectious disease had occurred; the post cards to be signed and returned by the medical man in attendance, when, in his opinion the house was ready for Disinfection. As a result, 203 houses were disinfected by an officer of the Council during the year, as follows:—In January, 11 cases; February, 11; March, 13; April, 12; May, 5; June, 7; July, 14; August, 17; September, 25; October, 27; November, 25; December, 36.

## **B.—Non-notifiable Zymotic Diseases.**

**Measles** appeared as an epidemic at Gotham and Brinsley in March, at Calverton in June, and in the Greasley Sub-district generally in July. 20 deaths occurred—4 at Kimberley, 7 at Eastwood, 4 at



Awsworth, and 1 each at Lynn Croft, Brinsley, Newthorpe, Beggarlee, and Underwood—two were 5 years old, and the remainder under four years of age. All the cases were complicated with Bronchitis or Pneumonia.

**Whooping Cough** caused 15 deaths among children—all under 2 years of age. The deaths occurred at Newthorpe, 3; Eastwood, 2; Newstead, 2; Codnor, 2; and 1 each at Lynn Croft, Beggarlee, Ruddington, Kirkby, Jacksdale, and Annesley. Nearly all the deaths occurred in the first quarter of the year.

**Diarrhœa** caused 34 deaths: Kirkby, with 11, and Selston, with 9 deaths, were the chief localities affected. 28 of the deaths occurred in infants under 12 months of age. The death-rate was .61 per 1000 living.

**Cholera.**—One case was notified in Kirkby on September 13, and proved fatal in 36 hours.

**Influenza** caused 23 deaths. It was generally prevalent throughout the district in the first quarter of the year, its chief incidence occurring just after the break-up of the severe frost which characterized last Winter. In February and March, 15 out of the 23 deaths were registered, principally in the Greasley Sub-district. Bronchitis and Pneumonia were the chief complications, and nearly half the deaths occurred in old people (over 60 years of age). The death-rate was .41 per 1000 living.

#### COMPARATIVE TABLE.

*Annual Death-rate per 1000 living.*

	Total Deaths.	Principal Zymotic Diseases.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Fever.	Diarrhœa	Small-Pox
England & Wales, less 100 towns 1895	17.47	1.61	.25	.12	.19	.25	.15	.63	.00
Basf'd Rl. Dist. 1895	16.62	1.72	.36	.10	.10	.27	.25	.61	.00
„ „ 1894	13.06	.82	.05	.12	.12	.20	.12	.16	.00

### III.—GENERAL.

By far the greater part of the surface of the District is occupied by the Trias, or new red sandstone formation, the two divisions of which—the Keuper and the Bunter—form broad bands several miles across. The Permian rocks occupy a narrow area along the western border of the Bunter beds, followed by a patch of coal measures—an easterly extension of the Derbyshire coal-field. There are also the drift deposits and the alluvium of the river valleys.

With the exception of the river valleys which are flat, the configuration of the District is gently undulating, the highest point being not more than 600 ft. above sea-level; it is watered by many small brooks, more or less polluted by receiving crude sewage from the hamlets near which they flow.

The District is essentially rural in character, the density of population being less than 1 person per acre; it contains many hamlets and villages; two of the latter aspire to the dignity of towns, and during the present year will probably be raised to that rank and invested with Urban powers.

The male population is chiefly employed in the collieries which abound in the north and west portions of the District; whilst in the south and east, agriculture and framework-knitting are the chief occupations followed. The younger members of the community generally find employment at the lace and hosiery factories which are developing in the villages. But few offensive trades exist, and very seldom are complaints made about them, and then generally by private individuals.

**Water.**—The supply of the District, so far as it is derived from the Nottingham Corporation Waterworks is excellent in quality and ample for present requirements. The water supplied to part of your District, by the Sutton Waterworks Co., is far from satisfactory, and it is to be hoped that ere long the extension works of that Company will be finished and the supply improved in quality and quantity. The scheme for supplying Selston is progressing slowly owing to a difficulty in acquiring some necessary land, but probably that difficulty will soon be cleared away, and the Parish supplied with a wholesome water.



In the rest of the District the water supply is in a most unsatisfactory state, notably in Gotham, Burton Joyce and Codnor, and to a less extent in Ruddington.

A long report was made by Mr. Maylan with regard to the scarcity of water in Gotham, and the matter was placed in the hands of Mr. Hodson of Loughborough, but the hardness of the local water, due to the presence of Gypsum beds in the neighbourhood makes his task a difficult one, and will probably necessitate the bringing of a wholesome supply from a distance.

The question of supplying Burton Joyce with water has been referred to by your Medical Officer of Health in his Annual Report for some years past. It is probable that it now depends on the solution of the Dover Beek Valley controversy, and that eventually Burton Joyce will be satisfactorily supplied.

At Codnor an ample supply of Water is obtainable locally, but the entire absence of proper drains and sewers, and the existence of deep leaking privies and other accumulations of decomposing filth render the water liable to contamination and of doubtful quality.

The **Sewerage** of the District is not in a very satisfactory state. Many villages are not sewered at all, while others are only partially sewered, and discharge the sewage into dykes or streams without any attempt at purification. The much needed sewerage of Selston parish is now receiving the attention of the Engineer, Mr. Herbert Walker. The question of re-modelling the outfall works at Kimberley Sewage Farm awaits the approval of the Local Government Board. The Eastwood and Greasley Sewage Works, though not yet out of the Contractor's hands, are at work in a satisfactory manner as regards the effluent, which has always been clear when examined; the plan of treatment is precipitation by Alumino ferrie, and filtration through Polarite beds.

The Kirkby Sewage Farm has been worked in a very satisfactory manner during the past twelve months. The engine-driver, Mr. Shelton, has been very attentive in distributing the sewage, and although the disposal arrangements are crude, the effluent water has been fairly clear, and there has been a total absence of complaint of any description. Building operations have extended to the boundary of the Farm.

Nuncar Gate Sewer was opened and thoroughly examined to ascertain its condition, and was found to be in a very bad state, and should be relaid.

As Kirkby will shortly obtain Urban powers many matters connected with the Sewerage of the parish have been left for the consideration of the New Council.

Newstead Sewage farm continues in a very satisfactory condition.

At Ruddington an alteration to the Sewage outfall in the Leys was made by carrying the culvert further into the field, thus removing a pond of crude sewage from the road side, which had been a dangerous spot for children. Distillery Street culvert was found to be blocked up and has been cleared out.

A full report was made by Mr. Maylan as to the defective Sanitary arrangements and inferior water supply of Ruddington, and was referred to the Parish Council for their consideration.

Many small alterations in the drainage of Gotham have been carried out, but several defective sanitary conditions in that village still require attention.

At Burton Joyce the dyke passing under Station Road was a cause of frequent complaint, sewage matter filling it bank-full at times. A new 9 inch pipe sewer was laid to remedy this condition of things, and the dyke is now in a satisfactory state.

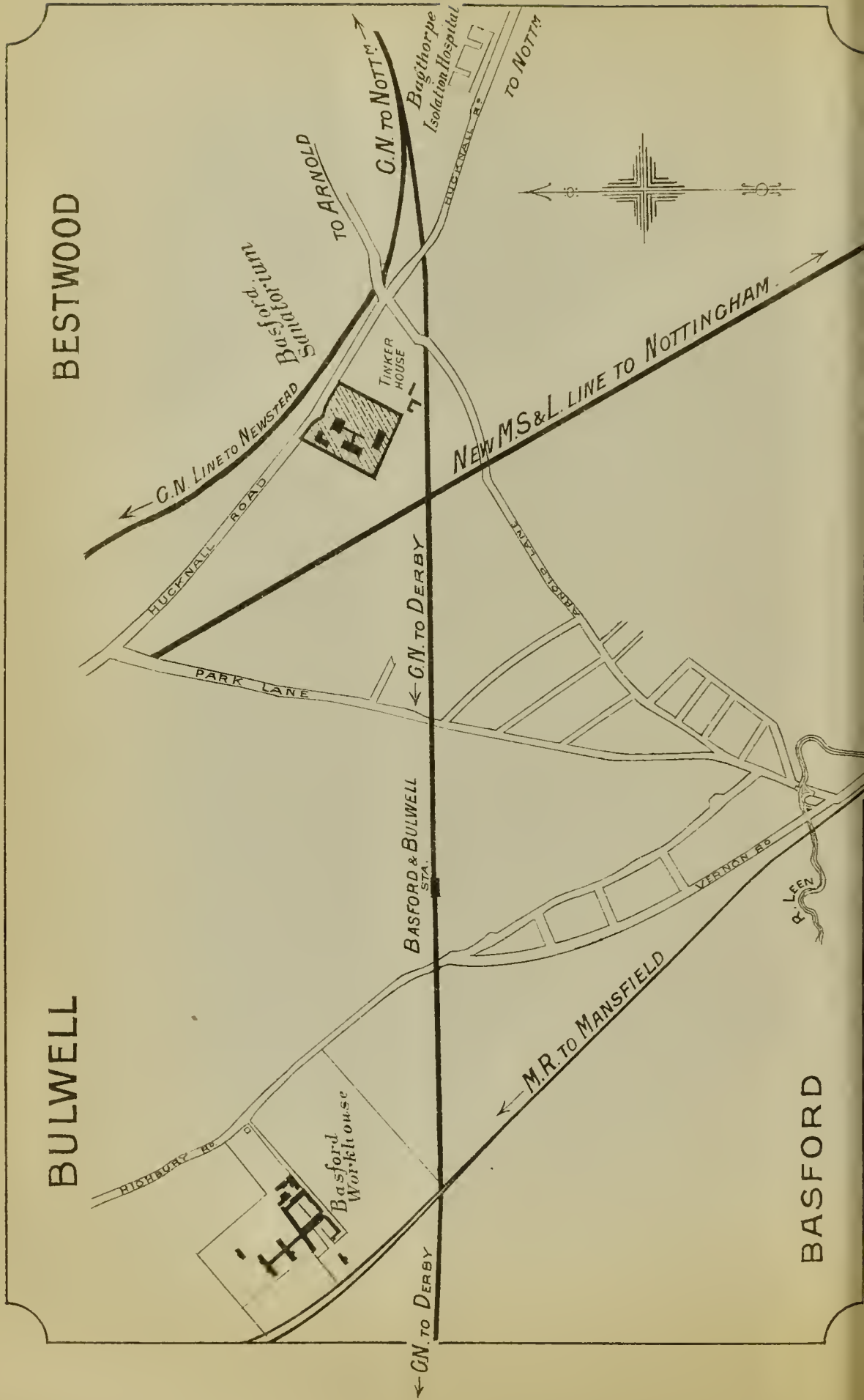
The sewer in the main road, opposite Hemmington's Row, was found to be silted up and has been cleaned out.

The sewerage of Burton Joyce, generally, is in a very unsatisfactory condition.

At Colwick Vale, where the sewage enters the brook close to the main road, frequent complaints were made of the nuisance arising therefrom. Mr. Maylan had a flushing arrangement put down, by means of which some 40 to 50 tons of water are held back by a shuttle, which, when liberated thoroughly scour out the brook. This is attended to once a week, and has completely removed the nuisance.



DIAGRAM SHEWING POSITION OF BASFORD "SANATORIUM".



The drainage of Wilford has been slightly improved by alterations to manholes and cleaning out panterpits, but the sanitary conditions of the village still remain in an unsatisfactory condition.

Generally, many small alterations in the sanitary arrangements of the various villages have been made, and the outfall dykes have been well attended to throughout.

In various villages water-mains and lighting have been extended.

Many untrapped grates have been replaced by gullies, and several badly constructed leaking deep midden privies, on private property, have been reconstructed.

Sketch plans of model privies, ashpits and tub closets agreeing with the Model Bye-laws of the Local Government Board, and also plans showing proper house drainage, ventilation, and cesspools (where allowed) have been drawn out by Mr. Maylan, and been printed for distribution among builders, etc.

Building operations have been increasing rapidly in various portions of the District, over 200 plans having been passed by the Authority during the past year, besides a considerable number of small alterations to buildings, piggeries and out-offices approved by the Surveyors on their rounds and not necessitating the depositing of plans.

Your Medical Officer has inspected the site for a new Cemetery at Lambley, and reported on it to the Parish Council. It is now being drained and laid out. The other Cemeteries in your District are well kept, and sufficient for immediate future demands.

**The Isolation Hospital,** or “Sanatorium” as it is proposed to call it (to avoid confusion with the Borough Isolation Hospital close by) is situated in the parish of Basford, on the Hucknall Road leading to Bulwell Forest, and about 200 yards from Arnold Lane coming from Vernon Road, Basford. It is in the angle formed by the Nottingham and Newstead, and Nottingham and Derby branches of the Great Northern Railway which bound it on the North-east and South-west; and the new M. S. & L. Railway passes on its West side, so that it is practically surrounded by railways, the advantage of which is, to limit the near approach of building operations in



the future. It is thus admirably situated as regards locality, and the site is ideal, being on the new red sand-stone, moderately elevated and freely exposed to sun and wind. It is fast approaching completion, and is now only awaiting the laundry machinery, and furniture; for these an extra loan is required, and the necessary Local Government Board enquiry, which, it is to be hoped, will soon be held.

The present accommodation will be 22 beds, but there is ample room for extension, and the administrative block has been built with that object in view. A "Washington-Lyons" disinfecting apparatus is already in position, and will be sufficient for all work required. We cannot refrain here from paying a high tribute to the admirable way in which the work has been carried out by the Contractor, Mr. H. Vickers, under the able supervision of the Clerk of the works, Mr. Cowper.

**Bye-laws.**—During the year the Bye-laws of the Authority, framed some 22 years ago, have undergone a thorough revisal, and are now in the hands of the Local Government Board awaiting their final confirmation. The need of them has been felt for some time, and it is to be hoped that when they are put in force, a general improvement will be observed in the new dwellings for the working classes, as regards dryness, ventilation, closet accommodation and drainage.

**Nuisances.**—No legal proceedings were found necessary to abate nuisances; generally, informal notices served by the Medical Officer of Health or the Inspectors had the desired effect. The owners as a rule shewing a praise-worthy wish to comply with our requirements.

**Canal Boats Act.**—The Canals under the supervision of this Authority measure 23 miles in length, upon which are 20 wharves and 32 Locks. Heavy goods are carried in the boats, such as coal, ironstone, bricks, timber, &c., but there is no traffic in any kind of offensive cargo. Portions of the Canals were closed for a time for necessary repairs to the locks. The Nutbrook Canal has been permanently closed.

During the past year 40 Canal boats have been inspected, and their condition generally has been satisfactory, no cases of Infectious



Disease nor of over-crowding having occurred, and the boatmen have always given every facility for inspection.

**Elementary Schools.**—Some necessary improvements have been made in the Old Kirkby Board Schools, with regard to the closets and refuse disposal, and the School yard has been paved.

The Gotham Board School was closed from March 16th to April 1st on account of Measles.

The Underwood and Bagthorpe Schools were closed from 1st to 20th of July, also on account of Measles.

The Linby Schools were closed from December 5th to January 13th, 1896, on account of the prevalence of Scarlet Fever in the village and neighbourhood.

Ruddington Schools were closed from December 11th to January 20th, 1896, owing to the prevalence of Enteric Fever and Scarlet Fever in the village.

TABLE OF DEATHS during the Year 1895, in the Basford Rural District, classified according to Diseases, Ages, and Localities.

[illegible]



TABLE I.

*Shewing the Population, Inhabited Houses, Marriages, Births, and Deaths, for the year 1895, and 10 preceding years.*

The Year.	Estimated Population.	No. of Inhabited Houses.	Marriages.	Registered Births.	Corrected No of Deaths.			Deaths in Public Institutions.
					Total at all Ages	Under 1 year.	Under 5 years.	
1895	54934	10937	624	2013	913	295	418	34
1894	53872	10725	640	1808	704	251	338	26
1893	53011	10553	636	2009	836	300	396	24
1892	52165	10384	681	1914	954	326	485	35
1891	53627	10755	671	1988	869	285	366	32
1890	52000	9828	751	1846	935	311	123	25
1889	52000	9828	592	1821	815	258	110	90
1888	51957	9828	680	1757	775	244	103	79
1887	51312	9724	523	1772	755	216	88	84
1886	48820	9458	534	1884	923	315	117	95
1885	48240	9321	500	1815	735	204	107	60
Average of 10 years.	51700·4	10040·4	620·8	1861·4	830·1	271·0	223·3	55·0

TABLE II.  
*Shewing the Annual Birth and Death Rates, Death Rates of Children, and Proportion of Deaths  
in Public Institutions in a Thousand Deaths, for the year 1895, and preceding years.*

In Year.	Birth rate per 1000 of Population.	Corrected death Rate per 1000 of Population.	Deaths of Children under 1 year per 1000 Registered Births.	Deaths of Children under 5 years per 1000 of Total Deaths.	Deaths in Public Institutions per 1000 of Total Deaths.
1895	36.64	16.62	146.54	323.11	457.83
1894	33.56	13.06	138.82	356.53	480.11
1893	37.90	15.77	149.32	358.85	473.68
1892	36.69	18.28	170.03	341.71	508.38
1891	37.50	16.39	143.36	327.96	421.17
1890	35.50	17.90	168.47	332.62	464.17
1889	35.00	15.68	142.22	316.56	451.53
1888	33.80	14.90	137.73	312.25	441.27
1887	34.53	14.73	121.18	287.41	402.64
1886	38.31	18.75	169.32	345.61	468.03
1885	37.62	15.02	112.39	277.55	423.12
Average of 10 years.	36.04	16.04	145.28	325.70	453.41
					66.53



TABLE No. III

## BASFORD RURAL DISTRICT.

Deaths Registered from all Causes during the Year 1895.

	AGES.											Total.
	0 to 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 to 75	75 to 85	85 & up- wards	
I. SPECIFIC FEBRILE, OR ZYMOTIC DISEASES .....	44	33	10	9	5	3	1	7	10	3	1	129
II. PARASITIC DISEASES .....	1	...	...	...	...	...	...	...	...	...	...	1
III. DIETIC DISEASES .....	...	...	...	...	...	3	...	1	...	...	...	4
IV. CONSTITUTIONAL DISEASES .....	27	20	15	10	10	13	17	13	9	4	2	140
V. DEVELOPMENTAL DISEASES .....	41	...	...	...	1	...	...	...	19	32	17	110
VI. LOCAL DISEASES .....	111	58	13	8	15	22	26	20	78	58	3	421
VII. DEATHS FROM VIOLENCE .....	...	6	6	6	1	1	3	5	2	1	...	31
VIII. DEATHS FROM ILL-DEFINED AND NOT SPECIFIED CAUSES .....	71	3	...	1	1	...	1	...	...	...	...	77
TOTALS .....	295	123	44	34	33	42	48	55	118	98	23	913
1.—SPECIFIC FEBRILE, OR ZYMOTIC DISEASES.												
1.—MIASMATIC DISEASES.												
Smallpox, Vaccinated, Unvaccinated ...	...	...	...	...	...	...	...	...	...	...	...	...
Measles .....	4	14	2	...	...	...	...	...	...	...	...	20
Scarlet Fever .....	...	3	3	...	...	...	...	...	...	...	...	6
Typhus .....	...	...	...	...	...	...	...	...	...	...	...	...
Whooping Cough .....	9	6	...	...	...	...	...	...	...	...	...	15
Diphtheria and Membranous Croup .....	...	7	...	...	...	...	...	...	...	...	...	7
Ill-defined Fever .....	...	...	...	...	...	...	...	...	...	...	...	...
Enteric or Typhoid Fever .....	...	...	4	5	1	3	...	...	1	...	...	14
Influenza .....	2	2	...	1	3	...	1	5	6	2	1	23
2.—DIARRHŒAL DISEASES.												
Simple Cholera .....	...	...	...	...	...	...	...	1	...	...	...	1
Diarrhœa, Dysentery .....	28	3	...	...	...	...	...	1	2	...	...	34
3.—MALARIAL DISEASES												
4.—ZOOGENOUS DISEASES.												
5.—VENEREAL DISEASES.												
Syphilis .....	...	...	...	...	...	...	...	...	...	...	...	...
Gonorrhœa, Stricture of Urethra .....	...	...	...	...	...	...	...	...	...	...	...	...
6.—SEPTIC DISEASES												
Erysipelas .....	...	1	...	1	...	...	...	...	1	1	...	4
Pyæmia, Septicæmia .....	1	...	1	1	...	...	...	...	...	...	...	3
Puerperal Fever .....	...	...	...	1	1	...	...	...	...	...	...	2



*Deaths Registered from all Causes during the Year 1895.*

[illegible]

## Deaths Registered from all Causes during the Year 1895.

	AGES.												
	0 to 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 to 75	75 to 85	85 & up- wards.	Total.	
3.—DISEASES OF CIRCULATORY SYSTEM.													
Pericarditis .....	...	...	...	...	...	...	...	...	...	1	...	1	
Acute Endocarditis .....	...	...	...	...	...	...	...	...	...	...	...	...	
Valvular Diseases of Heart .....	...	1	1	...	...	2	2	2	5	8	1	22	
Other Diseases of Heart .....	...	...	2	...	2	4	5	5	21	4	1	44	
Aneurism .....	...	...	...	...	...	...	1	...	...	...	...	1	
Embolism, Thrombosis .....	...	...	...	...	...	...	...	...	...	...	...	...	
Other Diseases of Blood Vessels .....	...	...	...	...	...	...	1	...	1	1	...	3	
4.—DISEASES OF RESPIRATORY SYSTEM.													
Laryngitis .....	...	1	1	...	...	...	...	...	...	...	...	2	
Croup .....	...	...	...	...	...	...	...	...	...	...	...	...	
Emphysema, Asthma .....	...	...	...	...	...	...	3	...	1	2	...	6	
Bronchitis .....	28	27	1	...	...	1	1	3	5	21	...	167	
Pneumonia .....	11	10	2	3	3	3	4	4	6	4	...	50	
Pleurisy .....	...	...	...	...	...	...	...	...	...	...	...	...	
Other Diseases of Respiratory System..	...	...	...	...	...	...	...	...	...	...	...	...	
5.—DISEASES OF DIGESTIVE SYSTEM													
Dentition .....	8	4	...	...	...	...	...	...	...	...	...	12	
Sore Throat, Quinsy .....	...	1	...	...	...	...	...	1	...	...	...	2	
Diseases of Stomach .....	3	1	1	...	...	...	...	...	1	1	...	7	
Enteritis.....	23	3	...	...	...	...	...	...	...	1	...	27	
Obstructive Diseases of Intestine.....	1	1	...	...	...	...	...	...	1	2	...	5	
Peritonitis .....	1	...	...	...	2	1	...	1	...	1	...	6	
Ascites .....	...	...	...	...	...	...	...	...	...	...	...	...	
Cirrhosis of Liver .....	...	...	...	...	...	...	...	1	1	...	...	2	
Jaundice and other Diseases of Liver..	1	...	...	...	...	...	1	...	1	...	...	3	
Other Diseases of Digestive System....	...	...	...	...	...	...	...	...	...	...	...	...	
6.—DISEASES OF LYMPHATIC SYSTEM. ( <i>e.g.</i> , of Lymphatics and of Spleen) ..													
...	...	...	...	...	...	...	...	...	...	...	...	...	
7.—DISEASES OF GLAND-LIKE ORGANS OF UNCERTAIN USE. ( <i>e.g.</i> , Bronchocele, Addison's Disease)													
...	...	...	1	...	...	...	...	...	...	...	...	1	
8.—DISEASES OF URINARY SYSTEM.													
Nephritis .....	...	...	...	...	...	2	1	2	1	...	...	6	
Bright's Disease, Albuminuria .....	...	...	...	...	2	1	2	1	1	...	...	7	
Disease of Bladder or of Prostate ....	...	...	...	...	...	...	1	3	...	...	...	4	
Other Diseases of the Urinary System..	...	...	...	...	...	...	...	...	...	...	...	...	
9.—DISEASES OF REPRODUCTIVE SYSTEM.													
A. Of Organs of Generation.													
Male Organs .....	...	...	...	...	...	...	...	...	...	...	...	...	
Female Organs .....	...	...	...	...	...	...	...	...	...	...	...	...	
B. Of Parturition.													
Abortion, Miscarriage .....	...	...	...	...	...	...	...	...	...	...	...	...	
Puerperal Convulsions.....	...	...	1	...	...	...	...	...	...	...	...	1	
Placenta prævia, Flooding. ....	...	...	...	...	1	...	...	...	...	...	...	1	
Other Accidents of Child Birth .....	...	...	1	2	3	...	...	...	...	...	...	6	





TABLE IV.

*Shewing the number of Deaths at all ages in 1895 from certain groups of Diseases, and proportion to 1000 of Population and to 1000 Deaths from all causes; also the number of Deaths of Infants under one year of age from other groups of Diseases; and proportion to 1000 Births and 1000 Deaths from all causes under one year.*

Division 1. All Ages.	Total Deaths.	Deaths per 1000 of population at all ages.	Deaths per 1000 of Total Deaths at all ages.
1. Principal Zymotic } Diseases ... .. }	95	1.72	104.05
2. Pulmonary Dis- } eases, other than } Phthisis ... .. }	165	3.00	180.72
3. Principal Tuber- } cular Diseases... }	67	1.03	73.38
Division 2. Infants under 1 year.	Total Deaths.	Deaths per 1000 of Births.	Deaths per 1000 of Total Deaths under one year.
4. Wasting Diseases...	112	55.74	379.66
5. Convulsive Diseases	34	16.89	115.25

*Note.*—1. Includes Small Pox, Scarlet Fever, Diphtheria, Typhus, Enteric and Simple Continued Fevers, Whooping Cough, Measles, and Diarrhœa.

2. All Respiratory Diseases except Phthisis.

3. Phthisis, Scrofula, Tuberculosis, and Tabes Mesenterica.

4. Marasmus, Atrophy, Wasting, Debility, Inanition, Premature Birth, and Improper Feeding.

5. Hydrocephalus, Infantile Meningitis, Convulsions, and Dentition.



TABLE V.

*Shewing the number of Deaths from the principal Zymotic Diseases in the 10 years 1885 to 1894, and in the year 1895.*

DISEASE.	1894.	1893.	1892.	1891.	1890.	1889.	1888.	1887.	1886.	1885.	Annual average of 10 years.	Proportion of deaths to 1000 deaths in 10 years, 1885-1894.	Total deaths in 1895.	Proportion of deaths to 1000 deaths in 1895.
Small Pox ...	0	2	0	0	0	0	0	0	0	0	2	24	0	0.0
Measles ...	3	5	39	6	51	2	8	15	17	5	15.1	18.19	20	21.85
Scarlet Fever ...	7	7	17	19	6	10	8	4	5	47	13	15.66	6	6.55
Diphtheria ...	7	8	5	3	1	1	6	6	4	3	4.4	5.3	6	6.55
Whooping Cough.	11	21	35	13	14	21	20	2	30	15	18	21.69	15	16.39
FEVERS. { Typhus ... Enteric ... Simple Contd. .	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0
	6	17	15	13	19	26	12	18	10	11	14.7	17.7	14	15.3
	1	1	0	0	2	0	0	0	0	1	5	6	0	0.0
Diarrhœa ...	9	46	27	15	29	42	40	27	42	38	31.5	37.94	34	37.15
TOTALS...	44	107	138	69	122	102	94	72	108	120	97.4	117.32	95	103.79

# THE SUB-DISTRICTS.

The following table of estimated populations, with birth rates and death rates, both general and particular, for the several divisions of the district during the past 5 years, will be found useful for purposes of comparison. I may point out that the infant rates represent the annual number of deaths of infants under one year, 1stly, to every 1000 deaths, and 2ndly, to every 1000 births, and that all the other rates represent annual amounts per 1000 of population estimated to be living at the mid-year.

Sub-Districts.	Estimated Population.	Birth Rate.					Death Rate.					Infant Death Rate.										Zymotic Death Rate.					Phthisis Death Rate.				
												Per 1000 Deaths.					Per 1000 Births.					Zymotic Death Rate.					Phthisis Death Rate.				
		1895.	1894.	1893.	1892.	1891.	1895.	1894.	1893.	1892.	1891.	1895.	1894.	1893.	1892.	1891.	1895.	1894.	1893.	1892.	1891.	1895.	1894.	1893.	1892.	1891.	1895.	1894.	1893.	1892.	1891.
Greasley	36855	40.11	36.90	41.5	39.4	40.6	16.2	13.0	16.6	19.2	16.8	363.9	397.8	383.9	366.9	363.9	147.3	140.9	153.5	179.0	150.6	2.0	.7	2.4	3.1	1.6	0.5	1.1	0.8	0.7	0.8
Ilkeston	2223	29.68	30.69	34.1	29.3	34.6	13.9	14.4	8.5	19.8	21.7	129.0	238.0	500.0	200.0	238.0	60.6	121.2	125.0	135.5	149.2	2.7	.4	0.4	1.9	1.0	.4	.9	0.0	0.4	0.5
Basford	630	25.39	11.0	21.8	23.1	21.4	12.7	3.1	15.6	10.8	15.6	125.0	500.0	100.0	285.5	500.0	62.5	142.8	71.4	133.3	142.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulwell	3204	32.4	35.1	36.6	40.7	39.4	15.6	17.0	9.6	6.1	12.9	440.0	351.8	300.0	384.6	384.6	211.5	171.1	78.9	160.0	126.0	1.2	.9	0.9	1.3	1.3	1.2	.6	0.6	0.6	1.9
Arnold	4342	36.1	31.4	31.8	34.4	31.1	19.1	15.3	14.5	16.7	17.6	301.2	313.4	312.5	337.8	230.7	159.2	153.2	142.8	164.4	130.4	1.3	1.3	1.3	2.2	0.6	2.5	1.1	0.9	1.5	1.5
Carlton	2489	18.0	18.2	24.8	27.5	25.7	11.6	10.3	12.0	13.7	11.9	206.9	160.0	214.2	290.3	250.0	133.3	90.9	103.4	145.1	116.6	0.0	.4	0.8	1.3	1.0	0.8	1.6	0.4	0.0	0.8
Wilford	5181	28.1	22.2	27.9	26.2	30.8	18.3	10.5	19.1	16.1	15.8	200.0	200.0	300.0	211.7	238.0	130.1	94.8	273.9	130.4	122.6	1.5	.7	1.1	1.5	0.1	0.7	1.3	0.5	0.9	1.8

## METEOROLOGICAL

*(As supplied Weekly and Monthly to*

Taken at Nottingham, at a Station 214·32 feet above mean or half tide

Latitude 52 deg. 57 min. North

Month.	Pressure of Atmosphere in Month.		Temperature of Air in Month.						Mean Tem- perature.		Vapour.			Mean degree of Humidity <div>Saturation 100</div>
	Mean.	Range.	Highest.	Lowest.	Range.	Mean.			Air.	Dew Point.	Elastic Force.	In a cubic foot of Air.		
						Of all Highest.	Of all Lowest.	Daily Range.				Mean.	Short of Saturation.	
1895.	Inches.	Inches	Degs.	Degs.	Degs.	Degs.	Degs.	Degs.	Deg.	Degs.	Ins.	Gns.	Gns.	
Jan. ...	29·685	1·575	43·8	13·7	30·1	36·0	27·4	8·6	32·2	28·4	0·155	1·9	0·3	85
Feb. ...	30·106	0·777	46·8	2·0	44·8	34·6	22·4	12·2	28·6	22·9	0·123	1·5	0·4	79
Mareh ...	29·668	1·640	58·8	25·3	33·5	47·7	33·7	14·0	41·1	37·0	0·220	2·5	0·5	86
April ...	29·869	1·028	62·8	27·8	35·0	53·0	37·7	15·3	45·7	37·7	0·227	2·6	0·9	74
May ...	30·083	0·915	81·6	35·4	46·2	62·2	42·6	19·6	53·1	42·5	0·272	3·0	1·5	67
June ...	30·050	0·787	82·3	38·3	44·0	66·5	46·5	20·0	57·0	44·9	0·298	3·3	1·9	64
July ...	29·811	0·843	78·8	43·2	35·6	66·5	50·2	16·3	58·5	49·4	0·353	4·0	1·5	72
Aug. ...	29·847	0·949	77·9	41·4	36·5	67·8	51·0	16·8	59·8	50·6	0·369	4·1	1·6	71
Sept. ...	30·120	0·780	83·7	36·0	47·7	70·8	48·3	22·5	59·6	51·7	0·384	4·3	1·4	75
Oet. ...	29·804	1·398	74·5	22·3	52·2	52·1	37·2	14·9	44·7	38·6	0·235	2·7	0·7	79
Nov. ...	29·852	1·353	62·6	29·6	33·0	50·1	40·3	9·8	45·5	42·0	0·268	3·0	0·5	88
Dec. ...	29·753	1·309	54·1	22·3	31·8	43·3	33·0	10·3	38·5	34·7	0·202	2·3	0·4	87

## OBSERVATIONS, 1895.

*Registrar-General, Somerset House, London.)\**

level at Hull, and 215·00 feet above mean or half tide level at Liverpool.

Longitude 1 deg. 9 min. West.

Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer.		Wind.							Mean amount of Ozone. 0 to 10	Mean amount of Cloud. 0 to 10	Rain.			
	Maximum in Rays of Sun.	Minimum on Grass.	Mean daily Pressure in lbs. per square foot.	Relative proportion of					Horizontal movement of Air.			No. of days 0·10 or more fell.	Amount collected.	Amount collected, 76 feet above ground.	Evaporation.
				N	E	S	W	Calm.							
Gns.	Deg.	Deg.						Miles.				Inches	Inches	Inches	
555·1	55·6	25·3	4568	13	7	3	8	...	8010	0·55	7·0	20	3·443	2·855	0·848
567·3	63·5	21·0	3012	14	7	...	7	...	5865	0·28	7·7	5	0·339	0·289	0·878
544·5	81·5	31·0	3151	5	3	5	18	...	8200	1·00	7·3	13	1·363	1·170	1·493
543·2	94·9	36·3	4967	9	4	3	14	...	7105	1·00	6·3	11	1·631	1·423	2·500
539·5	106·3	41·9	3650	9	10	5	7	...	6365	0·45	4·0	3	0·690	0·546	4·225
534·2	109·8	46·2	2488	10	3	5	12	...	5010	0·60	5·9	9	0·894	0·784	4·577
528·0	112·2	51·2	3806	2	1	6	21	1	7200	1·03	6·6	15	3·245	2·835	4·334
527·3	112·0	50·9	4109	...	...	9	22	...	6965	1·03	6·7	12	1·636	1·489	2·413
532·1	110·4	46·6	1676	1	6	8	15	...	4890	0·46	4·1	6	0·656	0·606	2·828
543·1	84·8	36·5	3404	9	9	4	16	...	6765	0·61	7·5	13	2·278	2·060	1·537
543·0	70·6	38·1	6967	7	8	4	11	...	9685	0·90	8·3	15	2·610	2·248	1·061
549·0	55·4	30·4	6442	3	9	2	17	...	8170	0·93	7·9	14	1·968	1·695	0·840

\* Published by permission of the Nottingham Town Authorities.

## RAINFALL REGISTERS.

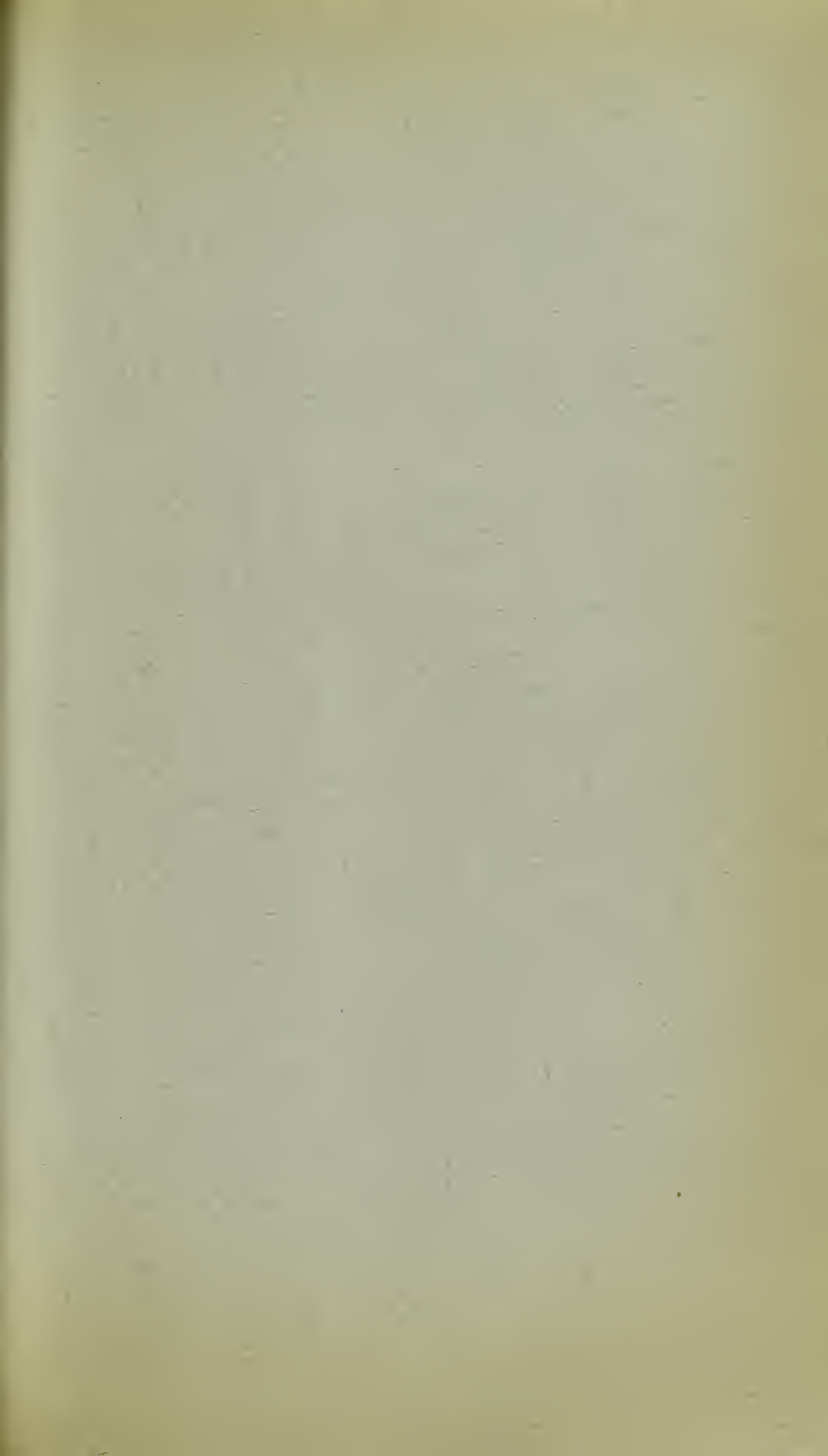
Month.	Total Depth. Inches.	Greatest Fall in 24 hours. Depth. Date.	Number of Days on which .01 or more rain fell.	Month.	Total Depth. Inches.	Greatest Fall in 24 hours. Depth. Date.	Number of Days on which .01 or more rain fell.
January -	.95	.95 20th	23	January -	3.99	.78 20th	21
February	.16	.07 24th	3	February	.14	.07 1st	5
March -	1.49	.32 28th	13	March -	1.50	.22 20th	15
April -	1.98	.44 25th	13	April -	1.83	.46 27th	12
May -	.55	.36 1st	5	May -	.54	.35 1st	5
June -	.89	.22 29th	10	June -	.88	.26 29th	10
July -	3.40	1.12 18th	17	July -	3.58	1.08 18th	15
August -	2.27	.53 27th	15	August -	1.94	.54 27th	15
September	.92	.48 10th	6	September	.70	.25 10th	7
October -	2.48	.81 8th	17	October -	2.22	.71 8th	7
November	2.87	.47 5th	20	November	3.06	.66 5th	20
December	2.21	.35 12th	15	December	2.24	.40 14th	16
TOTAL -	23.31		157	TOTAL -	22.62		148
Beeston Fields, Nottingham. Gauge above ground, 9 in. ; above sea level, 206 ft. <i>George Fellows</i>				Strelley Hall, Nottingham. Gauge above ground, 12 in. ; above sea level 396 ft. <i>Thomas L. K. Edge.</i>			
January -	4.22	.70 19th	22	January -	2.98	.82 20th	21
February	.25	.15 28th	6	February	.09	.06 24th	4
March -	1.85	.24 23rd	20	March -	1.41	.21 28th	15
April -	1.86	.51 25th	12	April -	1.25	.38 25th	11
May -	.60	.44 1st	5	May -	.79	.50 1st	4
June -	.81	.25 29th	10	June -	1.55	.67 29th	11
July -	4.48	1.14 18th	16	July -	4.18	1.81 18th	15
August -	1.94	.76 27th	16	August -	1.64	.36 26th	14
September	.61	.22 10th	8	September	.68	.29 10th	6
October -	2.71	.72 8th	17	October -	2.10	.87 8th	10
November	3.12	.61 5th	21	November	2.56	.37 27th	17
December	2.35	.51 12th	14	December	1.71	.33 12th	15
TOTAL -	24.80		167	TOTAL -	20.94		143
The Colliery, Eastwood, Notts. Gauge above ground, 12 in. ; above sea level 245 ft. <i>Ed. Lindley.</i>				Corporation Farm, Stoke Bardolph, Notts. Gauge above ground, 10 ft. ; above sea level, 83 ft. 5 in. <i>James Aris.</i>			



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G. B. WRAY D.P.H. Medical Officer of Health

